

**POLARIZED GAS ACCUMULATORS AND HEATING JACKETS
AND ASSOCIATED GAS COLLECTION AND THAW METHODS AND
POLARIZED GAS PRODUCTS**

Abstract of the Disclosure

Methods of collecting, thawing, and extending the useful polarized life of frozen polarized gases include heating a portion of the flow path and/or directly liquefying the frozen gas during thawing. A polarized noble gas product with an 5 extended polarized life product is also included. Associated apparatus such as an accumulator and heating jacket for collecting, storing, and transporting polarized noble gases include a secondary flow channel which provides heat to a portion of the collection path during accumulation and during thawing.

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